

METHOD AND APPARATUS OF USING SATELLITES TO AUGMENT
TRAFFIC CAPACITY OF A WIRELESS NETWORK INFRASTRUCTURE

ABSTRACT OF THE DISCLOSURE

5 A system and method for augmenting a wireless communication network to
provide at least a portion of digital data to a user is disclosed. The method comprises the
steps of receiving the portion of the digital data in a satellite receiver, providing the
received portion of the digital data to at least one of a plurality of terrestrial receivers
which form the wireless communication network, and transmitting the received portion of
10 the digital data to a user within a service region using the terrestrial transmitter. The
apparatus comprises a satellite antenna, for receiving a signal having at least a portion of
the data from a satellite, and a satellite receiver, communicatively coupled to the satellite
antenna for detecting and demodulating the signal to produce a portion of the digital data,
the satellite receiver communicatively coupled to a terrestrial transmitter in a terrestrial
15 wireless communication network.

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